

APPLICANT FACSIMILE OF FORM PTO-1449  
 REV 7-80

 U.S. DEPARTMENT OF  
 COMMERCE  
 PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO

SERIAL NO.

UMY-052DV2

10/645735

 LIST OF PUBLICATIONS CITED BY APPLICANT  
 (Use several sheets if necessary)

APPLICANT

Mello, Craig C. *et al.*

FILING DATE

August 20, 2003

GROUP

~~4637~~ 1653

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MM	A1	4,469,863	09/84	Ts'o <i>et al.</i>	536	24.5	
	A2	4,511,713	04/85	Miller <i>et al.</i>	435	6	
	A3	5,034,323	07/91	Jorgensen <i>et al.</i>	800	282	
	A4	5,107,065	04/92	Shewmaker	800	298	
	A5	5,190,931	03/93	Inouye	435	91.32	
	A6	5,208,149	05/93	Inouye	435	471	
	A7	5,258,369	11/93	Carter	514	44	
	A8	5,272,065	12/93	Inouye	435	91.1	
	A9	5,365,015	11/94	Grierson <i>et al.</i>	800	283	
	A10	5,453,566	09/95	Shewmaker	800	286	
	A11	5,738,985	04/98	Miles	435	5	
	A12	5,795,715	08/98	Livache	435	6	
	A13	5,874,555	02/99	Dervan	536	23.1	
	A14	5,976,567	11/99	Wheeler <i>et al.</i>	424	450	
	A15	6,010,908	01/00	Gruenert <i>et al.</i>	435	463	
MM	A16	6,136,601	10/00	Meyer, Jr. <i>et al.</i>	435	375	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
MM	A17	WO 98/54315	12/98	WO				
	A18	WO 98/04717	02/98	WO				
	A19	WO 99/32619	07/99	WO				
	A20	WO 99/53050	10/99	WO				
	A21	WO 99/61631	12/99	WO				
MM	A22	WO 00/01846	01/00	WO				
	A23	WO 00/63364	10/00	WO				

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MM	A24	Baker <i>et al.</i> RNAi of the receptor tyrosine phosphatase HmLAR2 in a single cell of an intact leech embryo leads to growth-cone collapse. <i>Curr Biol.</i> 2000 Sep 7;10(17):1071-4
MM	A25	Bass. Double-stranded RNA as a template for gene silencing. <i>Cell.</i> 2000 Apr 28;101(3):235-8
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LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT <b>Mello, Craig C. et al.</b>	
		FILING DATE <b>August 20, 2003</b>	GROUP <b>1637-1653</b>

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MM	B1	Bastin <i>et al.</i> Flagellum ontogeny in trypanosomes studied via an inherited and regulated RNA interference system. J Cell Sci. 2000 Sep;113 ( Pt 18):3321-8
MM	B2	Baulcombe <i>et al.</i> Molecular biology. Unwinding RNA silencing. Science. 2000 Nov 10;290(5494):1108-9
MM	B3	Baulcombe. Gene silencing: RNA makes RNA makes no protein. Curr Biol. 1999 Aug 26;9(16):R599-601
MM	B4	Baum <i>et al.</i> Inhibition of protein synthesis in reticulocyte lysates by a double-stranded RNA component in HeLa mRNA. Biochem Biophys Res Commun. 1983 Jul 18;114(1):41-9
MM	B5	Bhat <i>et al.</i> Discs Lost, a novel multi-PDZ domain protein, establishes and maintains epithelial polarity. Cell. 1999 Mar 19;96(6):833-45
MM	B6	Billy <i>et al.</i> Specific interference with gene expression induced by long, double-stranded RNA in mouse embryonal teratocarcinoma cell lines. Proc Natl Acad Sci U S A 2001 Dec 4;98(25):14428-33
—	B7	<del>Bocher <i>et al.</i> RNA interference: genetic wand and genetic watchdog. Nat Cell Biol. 2000 Feb;2(2):E3T-6</del>
—	B8	<del>Bocher <i>et al.</i> RNA interference can target pre-mRNA: consequences for gene expression in a Caenorhabditis elegans operon. Genetics. 1999 Nov;153(3):1245-56</del>
MM	B9	C. elegans Sequencing Consortium, The. Genome Sequence of the Nematode C. elegans: A Platform for Investigating Biology Science. 11 Dec. 1998 282:2012-2018
MM	B10	Caplen <i>et al.</i> dsRNA-mediated gene silencing in cultured Drosophila cells: a tissue culture model for the analysis of RNA interference. Gene. 2000 Jul 11;252(1-2):95-105
MM	B11	Caplen. A new approach to the inhibition of gene expression. Trends Biotechnol. 2002 Feb;20(2):49-51
MM	B12	Catalanotto <i>et al.</i> Gene silencing in worms and fungi. Nature 2000 Mar 16;404(6775):245
MM	B13	Chuang <i>et al.</i> Specific and heritable genetic interference by double-stranded RNA in Arabidopsis thaliana. Proc Natl Acad Sci U S A. 2000 Apr 25;97(9):4985-90
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MM	B18	Domeier <i>et al.</i> A link between RNA interference and nonsense-mediated decay in Caenorhabditis elegans. Science. 2000 Sep 15;289(5486):1928-31
MM	B19	Driver <i>et al.</i> Oligonucleotide-based inhibition of embryonic gene expression. Nat Biotechnol. 1999 Dec;17(12):1184-7
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MM	C2	Fraser <i>et al.</i> Functional genomic analysis of <i>C. elegans</i> chromosome I by systematic RNA interference. <i>Nature</i> . 2000 Nov 16;408(6810):325-30
MM	C3	Fire <i>et al.</i> RNA-triggered gene silencing. <i>Trends Genet.</i> 1999 Sep;15(9):358-63
MM	C4	Fire <i>et al.</i> Production of antisense RNA leads to effective and specific inhibition of gene expression in <i>C. elegans</i> muscle. <i>Development</i> . 1991 Oct;113(2):503-14
MM	C5	Fire <i>et al.</i> Potent and specific genetic interference by double-stranded RNA in <i>Caenorhabditis elegans</i> . <i>Nature</i> . 1998 Feb 19;391(6669):806-11
MM	C6	Fire <i>et al.</i> On the Generality of RNA-Mediated Interference. <i>Worm Breeder's Gazette</i> . 1998;15(3):8
MM	C7	Fortier <i>et al.</i> Temperature-dependent gene silencing by an expressed inverted repeat in <i>Drosophila</i> . <i>Genesis</i> . 2000 Apr;26(4):240-4
—	C8	<del>GENBANK Accession No. Q22017 for <i>Caenorhabditis elegans</i> November 4, 1996</del>
MM	C9	Grieson <i>et al.</i> <i>Trends in Biotechnology</i> 1991;9:122-3
MM	C10	Grishok <i>et al.</i> Genetic requirements for inheritance of RNAi in <i>C. elegans</i> . <i>Science</i> . 2000 Mar 31;287(5462):2494-7
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MM	C12	Hammond <i>et al.</i> An RNA-directed nuclease mediates post-transcriptional gene silencing in <i>Drosophila</i> cells. <i>Nature</i> . 2000 Mar 16;404(6775):293-6
MM	C13	Harbinder <i>et al.</i> Genetically targeted cell disruption in <i>Caenorhabditis elegans</i> . <i>Proc Natl Acad Sci U S A</i> . 1997 Nov 25;94(24):13128-33
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MM	C15	Harfe <i>et al.</i> Analysis of a <i>Caenorhabditis elegans</i> Twist homolog identifies conserved and divergent aspects of mesodermal patterning. <i>Genes Dev</i> . 1998 Aug 15;12(16):2623-35
MM	C16	Heaphy, S. <i>et al.</i> Viruses, double-stranded RNA and RNA interference. <i>Recent Res. Devel. Virol.</i> 2001;3:91-104
MM	C17	Hill <i>et al.</i> dpy-18 encodes an alpha-subunit of prolyl-4-hydroxylase in <i>caenorhabditis elegans</i> . <i>Genetics</i> . 2000 Jul;155(3):1139-48
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MM	C19	Huang <i>et al.</i> The proneural gene amos promotes multiple dendritic neuron formation in the <i>Drosophila</i> peripheral nervous system. <i>Neuron</i> . 2000 Jan;25(1):57-67

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MM	D1	Hughes <i>et al.</i> RNAi analysis of Deformed, proboscipedia and Sex combs reduced in the milkweed bug <i>Oncopeltus fasciatus</i> : novel roles for Hox genes in the hemipteran head. <i>Development</i> . 2000 Sep;127(17):3683-94
MM	D2	Hunter. Genetics: a touch of elegance with RNAi. <i>Curr Biol</i> . 1999 Jun 17;9(12):R440-2
MM	D3	Hunter. Gene Silencing: Shrinking the Black Box of RNAi. <i>Current Biology</i> , 2000, 10:R137-R140
MM	D4	Izant. Inhibition of Thymidine Kinase Gene Expression by Anti-Sense RNA: A Molecular Approach to Genetic Analysis. <i>Cell. Apr.</i> 1984, 36:1007-1015
MM	D5	Jacobs <i>et al.</i> When two strands are better than one: the mediators and modulators of the cellular responses to double-stranded RNA. <i>Virology</i> . 1996 May 15;219(2):339-49
MM	D6	Jorgensen <i>et al.</i> An RNA-based information superhighway in plants. <i>Science</i> . 1998 Mar 6;279(5356):1486-7
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MM	D8	Judware <i>et al.</i> Inhibition of the dsRNA-Dependent Protein Kinase by a Peptide Derived from the Human Immunodeficiency Virus Type 1 Tat Protein. <i>Journal of Interferon Research</i> 1993 13:153-160
MM	D9	Kelly <i>et al.</i> Chromatin silencing and the maintenance of a functional germline in <i>Caenorhabditis elegans</i> . <i>Development</i> . 1998 Jul;125(13):2451-6
MM	D10	Kennerdell <i>et al.</i> Heritable gene silencing in <i>Drosophila</i> using double-stranded RNA. <i>Nat Biotechnol</i> . 2000 Aug;18(8):896-8
MM	D11	Kennerdell <i>et al.</i> Use of dsRNA-mediated genetic interference to demonstrate that frizzled and frizzled 2 act in the wingless pathway. <i>Cell</i> . 1998 Dec 23;95(7):1017-26
MM	D12	Ketting <i>et al.</i> Mut-7 of <i>C. elegans</i> , required for transposon silencing and RNA interference, is a homolog of Werner syndrome helicase and RNaseD. <i>Cell</i> . 1999 Oct 15;99(2):133-41
MM	D13	Ketting <i>et al.</i> A genetic link between co-suppression and RNA interference in <i>C. elegans</i> . <i>Nature</i> . 2000 Mar 16;404(6775):296-8
MM	D14	Kim <i>et al.</i> Positioning of longitudinal nerves in <i>C. elegans</i> by nidogen. <i>Science</i> . 2000 Apr 7;288(5463):150-4
MM	D15	Klafl <i>et al.</i> RNA structure and the regulation of gene expression. <i>Plant Mol Biol</i> . 1996 Oct;32(1-2):89-106
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MM	D17	Kumar <i>et al.</i> Antisense RNA: function and fate of duplex RNA in cells of higher eukaryotes. <i>Microbiol Mol Biol Rev</i> . 1998 Dec;62(4):1415-34
MM	D18	Lam <i>et al.</i> Inducible expression of double-stranded RNA directs specific genetic interference in <i>Drosophila</i> . <i>Curr Biol</i> . 2000 Aug 24;10(16):957-63
MM	D19	Lewis <i>et al.</i> Distinct roles of the homeotic genes Ubx and abd-A in beetle embryonic abdominal appendage development. <i>Proc Natl Acad Sci U S A</i> . 2000 Apr 25;97(9):4504-9
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MM	E2	Liu <i>et al.</i> Overlapping roles of two Hox genes and the exd ortholog ceh-20 in diversification of the C. elegans postembryonic mesoderm. Development. 2000 Dec;127(23):5179-90
MM	E3	Liu <i>et al.</i> Essential roles for Caenorhabditis elegans lamin gene in nuclear organization, cell cycle progression, and spatial organization of nuclear pore complexes. Mol Biol Cell. 2000 Nov;11(11):3937-47
MM	E4	Lohmann <i>et al.</i> Silencing of developmental genes in Hydra. Dev Biol. 1999 Oct 1;214(1):211-4
MM	E5	Maine. A conserved mechanism for post-transcriptional gene silencing? Genome Biol. 2000;1(3):REVIEWS1018
MM	E6	Maitra. Catalytic cleavage of an RNA target by 2-5A antisense and RNase L. J Biol Chem 1995 Jun 23;270(25):15071-5
MM	E7	Marx. Interfering with gene expression. Science. 2000 May 26;288(5470):1370-2
MM	E8	Matzke <i>et al.</i> How and Why Do Plants Inactivate Homologous (Trans)genes? Plant Physiol. 1995 Mar;107(3):679-685
MM	E9	Mello <i>et al.</i> Efficient gene transfer in C.elegans: extrachromosomal maintenance and integration of transforming sequences. EMBO J. 1991 Dec;10(12):3959-70
MM	E10	Mello <i>et al.</i> DNA transformation. Methods Cell Biol. 1995;48:451-82
MM	E11	Metzlaff <i>et al.</i> RNA-mediated RNA degradation and chalcone synthase A silencing in petunia. Cell. 1997 Mar 21;88(6):845-54
MM	E12	Mette <i>et al.</i> Transcriptional silencing and promoter methylation triggered by double-stranded RNA. EMBO J. 2000 Oct 2;19(19):5194-201
MM	E13	Melendez <i>et al.</i> Caenorhabditis elegans lin-13, a member of the LIN-35 Rb class of genes involved in vulval development, encodes a protein with zinc fingers and an LXCXE motif. Genetics. 2000 Jul;155(3):1127-37
MM	E14	Misquitta <i>et al.</i> Targeted disruption of gene function in Drosophila by RNA interference (RNA-i): a role for nautilus in embryonic somatic muscle formation. Proc Natl Acad Sci U S A. 1999 Feb 16;96(4):1451-6
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MM	E16	Montgomery <i>et al.</i> RNA as a target of double-stranded RNA-mediated genetic interference in Caenorhabditis elegans. Proc Natl Acad Sci U S A. 1998 Dec 22;95(26):15502-7
MM	E17	Nakano <i>et al.</i> RNA interference for the organizer-specific gene Xlim-1 in Xenopus embryos. Biochem Biophys Res Commun. 2000 Aug 2;274(2):434-9
MM	E18	Nekhai. <i>et al.</i> Peptides Derived from the Interferon-Induced PKR Prevent Activation by HIV-1 TAR RNA. Virology 1996 222:193-200
MM	E19	Nellen <i>et al.</i> What makes an mRNA anti-sense-itive? Trends Biochem Sci. 1993 Nov;18(11):419-23
MM	E20	Ngo <i>et al.</i> Double-stranded RNA induces mRNA degradation in Trypanosoma brucei. Proc Natl Acad Sci U S A. 1998 Dec 8;95(25):14687-92
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MM	F1	Oates <i>et al.</i> Too much interference: injection of double-stranded RNA has nonspecific effects in the zebrafish embryo. <i>Dev Biol.</i> 2000 Aug 1;224(1):20-8
MM	F2	Oelgeschlager <i>et al.</i> The evolutionarily conserved BMP-binding protein Twisted gastrulation promotes BMP signalling. <i>Nature.</i> 2000 Jun 15;405(6788):757-63
MM	F3	Paddison, P.J. <i>et al.</i> RNA interference: the new somatic cell genetics? <i>Cancer Cell.</i> 2002 Jul;2(1):17-23
MM	F4	Pal-Bhadra <i>et al.</i> RNAi related mechanisms affect both transcriptional and posttranscriptional transgene silencing in <i>Drosophila</i> . <i>Mol Cell</i> 2002 Feb;9(2):315-27
MM	F5	Parrish <i>et al.</i> Functional anatomy of a dsRNA trigger: differential requirement for the two trigger strands in RNA interference. <i>Mol Cell.</i> 2000 Nov;6(5):1077-87
MM	F6	Pichler <i>et al.</i> OOC-3, a novel putative transmembrane protein required for establishment of cortical domains and spindle orientation in the P(1) blastomere of <i>C. elegans</i> embryos. <i>Development.</i> 2000 May;127(10):2063-73
MM	F7	Pineda <i>et al.</i> Searching for the prototypic eye genetic network: Sine oculis is essential for eye regeneration in planarians. <i>Proc Natl Acad Sci U S A.</i> 2000 Apr 25;97(9):4525-9
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MM	F9	Pratt <i>et al.</i> Regulation of in vitro translation by double-stranded RNA in mammalian cell mRNA preparations. <i>Nucleic Acids Res.</i> 1988 Apr 25;16(8):3497-510
MM	F10	Proud. PKR: a new name and new roles. <i>Trends Biochem Sci.</i> 1995 Jun;20(6):241-6
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—	F15	<del>Scherr, M. et al. Gene silencing mediated by small interfering RNAs in mammalian cells. <i>Curr Med Chem.</i> 2003 Feb;10(3):245-56</del>
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MM	F18	Sharp <i>et al.</i> Molecular biology. RNA interference. <i>Science.</i> 2000 Mar 31;287(5462):2431-3
MM	F19	Shi <i>et al.</i> Genetic interference in <i>Trypanosoma brucei</i> by heritable and inducible double-stranded RNA. <i>RNA.</i> 2000 Jul;6(7):1069-76
MM	F20	Shippy <i>et al.</i> Analysis of maxillopedia expression pattern and larval cuticular phenotype in wild-type and mutant <i>tribolium</i> . <i>Genetics.</i> 2000 Jun;155(2):721-31
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MM	G1	Stam <i>et al.</i> Annals of Botany. 1997;79:3-12
MM	G2	Stauber <i>et al.</i> Function of bicoid and hunchback homologs in the basal cyclorrhaphan fly <i>Megaselia</i> (Phoridae). Proc Natl Acad Sci U S A. 2000 Sep 26;97(20):10844-9
MM	G3	Suzuki <i>et al.</i> Activation of target-tissue immune-recognition molecules by double-stranded polynucleotides. Proc Natl Acad Sci U S A. 1999 Mar 2;96(5):2285-90
MM	G4	Svoboda <i>et al.</i> Selective reduction of dormant maternal mRNAs in mouse oocytes by RNA interference. Development 2000 Oct;127(19):4147-56
MM	G5	Tabara <i>et al.</i> RNAi in <i>C. elegans</i> : soaking in the genome sequence. Science. 1998 Oct 16;282(5388):430-1
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Examiner		Date Considered
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